

## INVENTOR SEARCH

=&gt; fil capl

FILE 'CAPLUS' ENTERED AT 15:12:53 ON 30 OCT 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Oct 2007 VOL 147 ISS 19

FILE LAST UPDATED: 29 Oct 2007 (20071029/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=&gt; =&gt; d que nos 179

```

L1      1 SEA FILE=CAPLUS ABB=ON US2006-590569/AP
L2      294 SEA FILE=CAPLUS ABB=ON KANZAKI Y7/AU
L4      STR
L7      80221 SEA FILE=REGISTRY SSS FUL L4
L8      2263 SEA FILE=REGISTRY ABB=ON L7 AND P/ELS
L9      STR
L12     6557 SEA FILE=REGISTRY SUB=L7 SSS FUL L9
L13     6525 SEA FILE=REGISTRY ABB=ON L12/COMPLETE
L14     401 SEA FILE=REGISTRY ABB=ON L8 AND L13
L15     6492 SEA FILE=REGISTRY ABB=ON L13 AND S/ELS
L16     368 SEA FILE=REGISTRY ABB=ON L14 AND L15
L19     STR
L22     35 SEA FILE=REGISTRY SUB=L7 SSS FUL L19
L24     15918 SEA FILE=REGISTRY ABB=ON H3O4P
L28     2 SEA FILE=REGISTRY ABB=ON L16 NOT NC>1
L32     15129 SEA FILE=REGISTRY ABB=ON L7 AND C3H5NO
L33     5691 SEA FILE=REGISTRY ABB=ON L7 AND C7H13NO4S
L34     30 SEA FILE=REGISTRY ABB=ON L24 AND L32
L38     1 SEA FILE=REGISTRY ABB=ON L34 AND NC<3
L42     19 SEA FILE=REGISTRY ABB=ON L32 AND NC<2
L44     29 SEA FILE=REGISTRY ABB=ON L33 AND NC<2
L48     4 SEA FILE=CAPLUS ABB=ON L22
L49     1 SEA FILE=CAPLUS ABB=ON L28
L50     2 SEA FILE=CAPLUS ABB=ON L38
L51     40077 SEA FILE=CAPLUS ABB=ON L42
L52     1897 SEA FILE=CAPLUS ABB=ON L44
L54     198912 SEA FILE=CAPLUS ABB=ON L24
L56     1331 SEA FILE=CAPLUS ABB=ON (L51 OR L52) AND L54
L58     178191 SEA FILE=CAPLUS ABB=ON L54 AND (PY<2005 OR AY<2005 OR
        PRY<2005)
L59     27 SEA FILE=CAPLUS ABB=ON L58 AND L51 AND L52

```

L60 12148 SEA FILE=CAPLUS ABB=ON POLYPHOSPHORIC ACIDS/CT  
 L61 38 SEA FILE=CAPLUS ABB=ON L58 AND (L51 OR L52) AND L60  
 L63 43001 SEA FILE=CAPLUS ABB=ON (VINYL OR POLYVINYL)/CW  
 L66 102758 SEA FILE=CAPLUS ABB=ON POLYAMIDES/CT  
 L67 27 SEA FILE=CAPLUS ABB=ON L60 AND L63 AND L66  
 L68 105332 SEA FILE=CAPLUS ABB=ON L7  
 L69 4 SEA FILE=CAPLUS ABB=ON L67 AND L68  
 L70 73100 SEA FILE=CAPLUS ABB=ON ELECTRIC CONDUCTORS/CT  
 L71 14 SEA FILE=CAPLUS ABB=ON L56 AND L70  
 L72 172 SEA FILE=CAPLUS ABB=ON L14  
 L73 3 SEA FILE=CAPLUS ABB=ON L72 AND L70  
 L74 4594 SEA FILE=CAPLUS ABB=ON L51(L)TEM/RL  
 L75 363 SEA FILE=CAPLUS ABB=ON L52(L)TEM/RL  
 L76 14559 SEA FILE=CAPLUS ABB=ON (L72 OR L60 OR L54) (L)TEM/RL  
 L78 6 SEA FILE=CAPLUS ABB=ON L74 AND L75 AND L76  
 L79 16 SEA FILE=CAPLUS ABB=ON (L1 OR L2) AND (L68 OR L48 OR L49 OR  
 L50 OR L59 OR L61 OR L69 OR L71 OR L73 OR L78)

=> d ibib abs hitind hitstr 179 1-16

L79 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2007:937755 CAPLUS Full-text  
 DOCUMENT NUMBER: 147:278498  
 TITLE: Compositions containing N-phosphonyl  
 (meth)acrylamides, their polymers, and application and  
 manufacture of the compositions and polymers  
 INVENTOR(S): Kanzaki, Yoshio  
 PATENT ASSIGNEE(S): Uni-Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 63pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007211146	A	20070823	JP 2006-33100	20060209
PRIORITY APPLN. INFO.:			JP 2006-33100	20060209

AB The compns., useful as emulsifiers and solubilizers for rubbers, contain  
 CH2:CR1aCONR2aXaOR3a (R1a = H, Me; R2a = H, hydrocarbyl; XaOR3a = phosphate  
 residue), CH2:CR1bCON(XbOH)XcOR3b (R1b = H, Me; XbOH = phosphoric acid  
 residue; XcOR3b = phosphate residue), and/or CH2:CR1cCON(XdOR3c)XeOR3d (R1c =  
 H, Me; XdOR3c, XeOR3d = phosphate residue). The polymers are useful for  
 conductive resins as binders for conductive metal pastes. Thus, CH2:CHCONH2  
 was amidated with anhydrous H3PO4 and esterified with Nonion NS 202  
 (nonylphenylethoxyethanol) to give a composition containing  
 CH2:CHCON[P(O)(OH)2]P(O)(OH)OR (R = nonylphenylethoxyethyl) and  
 CH2:CHCON[P(O)(OH)2]2. Vinyl acetate was mixed with the composition, water,  
 and an aqueous ammonium persulfate solution, and emulsion-polymerized without  
 separation and blocking to give a dispersion showing no apparent change after  
 storage at room temperature for 1 mo.

CC 37-3 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 35, 38, 39, 56

IT Electric conductors  
 (films; manufacture of N-phosphonyl (meth)acrylamide compns. as emulsifiers  
 and rubber solubilizers and their polymers for conductive films and  
 binders for conductive metal pastes)

IT 946492-01-9P, Acrylamide-N,N-diphosphonic acid-oxirane-vinyl

(FILE 'HOME' ENTERED AT 14:09:41 ON 30 OCT 2007)

FILE 'CAPLUS' ENTERED AT 14:10:13 ON 30 OCT 2007

E US2006-590569/APPS

L1 1 SEA ABB=ON US2006-590569/AP  
D SCAN  
L2 294 SEA ABB=ON KANZAKI Y?/AU  
SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:11:14 ON 30 OCT 2007

L3 27 SEA ABB=ON (28497-59-8/BI OR 863207-64-1/BI OR 863207-65-2/BI  
OR 863207-66-3/BI OR 107-13-1/BI OR 1314-56-3/BI OR 15214-89-8/  
BI OR 24599-21-1/BI OR 25014-41-9/BI OR 25067-61-2/BI OR  
25086-48-0/BI OR 25087-26-7/BI OR 79-06-1/BI OR 79-41-4/BI OR  
863207-68-5/BI OR 863207-69-6/BI OR 863496-24-6/BI OR 9002-86-2  
/BI OR 9002-89-5/BI OR 9003-01-4/BI OR 9003-05-8/BI OR  
9003-08-1/BI OR 9003-17-2/BI OR 9003-20-7/BI OR 9003-53-6/BI  
OR 9004-34-6/BI OR 95175-93-2/BI)  
D SCAN

FILE 'STNGUIDE' ENTERED AT 14:12:05 ON 30 OCT 2007

FILE 'REGISTRY' ENTERED AT 14:15:57 ON 30 OCT 2007

L4 STR  
L5 50 SEA SSS SAM L4  
L6 720247 SEA SSS FUL L4 EXTEND  
L7 80221 SEA SSS FUL L4  
L8 2263 SEA ABB=ON L7 AND P/ELS  
L9 STR L4  
L10 50 SEA SUB=L7 SSS SAM L9  
L11 36154 SEA SUB=L7 SSS FUL L9 EXTEND  
L12 6557 SEA SUB=L7 SSS FUL L9  
L13 6525 SEA ABB=ON L12/COMPLETE  
SAVE TEMP L13 KHA569SUB1/A  
L14 401 SEA ABB=ON L8 AND L13  
SAVE TEMP L14 KHA569SUB2/A  
L15 6492 SEA ABB=ON L13 AND S/ELS  
SAVE TEMP L15 KHA569SUB3/A  
L16 368 SEA ABB=ON L14 AND L15  
L17 22 SEA ABB=ON H304P/MF  
D SCAN  
L18 0 SEA ABB=ON L17 AND L3  
D QUE L13  
L19 STR L9  
L20 2 SEA SUB=L7 SSS SAM L19  
D SCAN  
L21 63 SEA SUB=L7 SSS FUL L19 EXTEND  
L22 35 SEA SUB=L7 SSS FUL L19  
SAVE TEMP L22 KHA569SUB4/A

FILE 'LREGISTRY' ENTERED AT 14:32:49 ON 30 OCT 2007

L23 191 SEA ABB=ON H304P

FILE 'REGISTRY' ENTERED AT 14:33:20 ON 30 OCT 2007

L24 15918 SEA ABB=ON H304P  
L25 77 SEA ABB=ON L15 AND L24  
SAVE TEMP L25 KHA569SUB5/A  
L26 0 SEA ABB=ON L25 AND L3  
L27 2 SEA ABB=ON L15 AND L3

```

      D SCAN
L28      2 SEA ABB=ON L16 NOT NC>1
      D SCAN
      SAVE TEMP L28 KHA569SUB6/A
L29      17 SEA ABB=ON L16 AND 2/NC
      D SCAN
L30      9 SEA ABB=ON L7 AND L3
L31      3 SEA ABB=ON L30 NOT (L22 OR L28)
      D SCAN
L32      15129 SEA ABB=ON L7 AND C3H5NO
L33      5691 SEA ABB=ON L7 AND C7H13NO4S
L34      30 SEA ABB=ON L24 AND L32
L35      77 SEA ABB=ON L24 AND L33
L36      0 SEA ABB=ON L34 AND L35
L37      0 SEA ABB=ON L34 AND NC<2
L38      1 SEA ABB=ON L34 AND NC<3
      D SCAN
      SAVE TEMP L38 KHA569SUB7/A
L39      0 SEA ABB=ON L35 AND NC<3
      D SCAN L3
L40      21 SEA ABB=ON L3 NOT (L22 OR L28 OR L38)
      D SCAN
L41      2 SEA ABB=ON L32 AND L40
      D SCAN
L42      19 SEA ABB=ON L32 AND NC<2
L43      2 SEA ABB=ON L41 AND L42
      SAVE TEMP L42 KHA569SUB8/A
      D SCAN L38
L44      29 SEA ABB=ON L33 AND NC<2
      SAVE TEMP L44 KHA569SUB9/A
L45      190 SEA ABB=ON L7 AND L24
L46      4 SEA ABB=ON L45 AND NC<3
      D SCAN
L47      1 SEA ABB=ON L46 AND (L22 OR L28 OR L38 OR L42 OR L44)
      D SCAN

```

FILE 'CAPLUS' ENTERED AT 14:54:01 ON 30 OCT 2007

```

L48      4 SEA ABB=ON L22
L49      1 SEA ABB=ON L28
L50      2 SEA ABB=ON L38
L51      40077 SEA ABB=ON L42
L52      1897 SEA ABB=ON L44
L53      72473 SEA ABB=ON L17
L54      198912 SEA ABB=ON L24
L55      0 SEA ABB=ON L53 NOT L54
L56      1331 SEA ABB=ON (L51 OR L52) AND L54
L57      6 SEA ABB=ON (L48 OR L49 OR L50)
L58      178191 SEA ABB=ON L54 AND (PY<2005 OR AY<2005 OR PRY<2005)
L59      27 SEA ABB=ON L58 AND L51 AND L52
      D SCAN L1
L60      12148 SEA ABB=ON POLYPHOSPHORIC ACIDS/CT
      E POLYVINYL BUTYRALS+ALL/CT
L61      38 SEA ABB=ON L58 AND (L51 OR L52) AND L60
L62      37 SEA ABB=ON L61 NOT (L48 OR L49 OR L50 OR L59 OR L1)
      D QUE NOS L61
      D SCAN L1
L63      43001 SEA ABB=ON (VINYL OR POLYVINYL)/CW
L64      7 SEA ABB=ON L58 AND (L51 OR L52) AND L60 AND L63
L65      122 SEA ABB=ON L60 AND L63
      E POLYAMIDE/CT

```

E POLYAMIDES/CT  
E E3+ALL

FILE 'STINGUIDE' ENTERED AT 15:03:19 ON 30 OCT 2007

FILE 'CAPLUS' ENTERED AT 15:04:34 ON 30 OCT 2007

L66 102758 SEA ABB=ON POLYAMIDES/CT  
E POLYACRYLAMIDES/CT  
E POLYACRYLAMIDE/CT  
E E3+ALL  
L67 27 SEA ABB=ON L60 AND L63 AND L66  
D QUE  
L68 105332 SEA ABB=ON L7  
L69 4 SEA ABB=ON L67 AND L68  
D QUE L61  
D SCAN L1  
L70 73100 SEA ABB=ON ELECTRIC CONDUCTORS/CT  
L71 14 SEA ABB=ON L56 AND L70  
L72 172 SEA ABB=ON L14  
L73 3 SEA ABB=ON L72 AND L70  
L74 4594 SEA ABB=ON L51(L)TEM/RL  
L75 363 SEA ABB=ON L52(L)TEM/RL  
L76 14559 SEA ABB=ON (L72 OR L60 OR L54) (L)TEM/RL  
L77 174 SEA ABB=ON (L74 OR L75) AND L76  
L78 6 SEA ABB=ON L74 AND L75 AND L76

FILE 'CAPLUS' ENTERED AT 15:12:53 ON 30 OCT 2007

L79 16 SEA ABB=ON (L1 OR L2) AND (L68 OR L48 OR L49 OR L50 OR L59 OR  
L61 OR L69 OR L71 OR L73 OR L78)  
D QUE NOS L79  
D IBIB ABS HITIND HITSTR L79 1-16

FILE 'REGISTRY' ENTERED AT 15:14:40 ON 30 OCT 2007

D STAT QUE L14  
D STAT QUE L22  
D STAT QUE L28  
D STAT QUE L38  
D STAT QUE L42  
D STAT QUE L44

FILE 'CAPLUS' ENTERED AT 15:15:15 ON 30 OCT 2007

D QUE NOS L48  
D QUE NOS L49  
D QUE NOS L50  
D QUE NOS L59  
D QUE NOS L61  
D QUE NOS L69  
D QUE NOS L71  
D QUE NOS L73  
D QUE NOS L78  
L80 83 SEA ABB=ON (L48 OR L49 OR L50 OR L59 OR L61 OR L69 OR L71 OR  
L73 OR L78) NOT L79  
L81 47 SEA ABB=ON (L48 OR L49 OR L50 OR L59 OR L69 OR L71 OR L73 OR  
L78) NOT L79  
L82 2 SEA ABB=ON L61 AND (L48 OR L49 OR L50 OR L59 OR L69 OR L71 OR  
L73 OR L78)  
L83 1 SEA ABB=ON L82 NOT L79  
D QUE L61  
L84 331165 SEA ABB=ON CONDUCTIV?/OBI  
L85 475893 SEA ABB=ON CONDUCT?/OBI

E COATING/CT  
E E12+ALL  
L86 482943 SEA ABB=ON COATING#/CW  
L87 8 SEA ABB=ON L61 AND (L85 OR L86)  
D QUE L87  
L88 54 SEA ABB=ON (L48 OR L49 OR L50 OR L59 OR L69 OR L71 OR L73 OR  
L78 OR L87) NOT L79  
D IBIB ABS HITIND HITSTR L88 1-54

FILE 'HOME' ENTERED AT 15:21:18 ON 30 OCT 2007

D QUE NOS L48  
D QUE NOS L49  
D QUE NOS L50  
D QUE NOS L59  
D QUE NOS L61  
D QUE NOS L69  
D QUE NOS L71  
D QUE NOS L73  
D QUE NOS L78  
D STAT QUE L14  
D STAT QUE L22  
D STAT QUE L28  
D STAT QUE L38  
D STAT QUE L42  
D STAT QUE L44